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**Oil-in-water nanoemulsion used in make-up comprises oil globules of number average size below 150 nm comprising oil(s), amphiphilic lipid(s) and a cationic polymer(s)**

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Patent Family: 10 patents, 30 countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
FR 2804014	A1	20010727	FR 2000792	A	20000121	200174	B
BR 200100335	A	20011009	BR 2001335	A	20010117	200174	E
CA 2332466	A1	20010721	CA 2332466	A	20010118	200174	E
EP 1129684	A2	20010905	EP 2000403527	A	20001214	200174	E
JP 2001214081	A	20010807	JP 200113866	A	20010122	200174	E
US 20010028887	A1	20011011	US 2001765675	A	20010122	200174	E
EP 1129684	B1	20060621	EP 2000403527	A	20001214	200643	E
DE 60028921	E	20060803	DE 60028921	A	20001214	200654	E
			EP 2000403527	A	20001214		
DE 60028921	T2	20070111	DE 60028921	A	20001214	200707	E
			EP 2000403527	A	20001214		
ES 2265897	T3	20070301	EP 2000403527	A	20001214	200719	E

Priority Applications (no., kind, date): FR 2000792 A 20000121

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
FR 2804014	A1	FR	49	0	
BR 200100335	A	PT			
CA 2332466	A1	FR			
EP 1129684	A2	FR			
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
JP 2001214081	A	JA	19		
EP 1129684	B1	FR			
Regional Designated	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				

States,Original	TR					
DE 60028921	E	DE			Application	EP 2000403527
					Based on OPI patent	EP 1129684
DE 60028921	T2	DE			Application	EP 2000403527
					Based on OPI patent	EP 1129684
ES 2265897	T3	ES			Application	EP 2000403527
					Based on OPI patent	EP 1129684

#### Alerting Abstract FR A1

NOVELTY - Oil-in-water nanoemulsion comprises oil globules of number average size below 150 nm comprising an oil(s) and an amphiphilic lipid(s) in a wt. ratio of 1 to 10 and a cationic polymer(s) with hydrophobic and hydrophilic sequences.

DESCRIPTION - An INDEPENDENT CLAIM is included for a cosmetic composition comprising the nanoemulsion.

USE - In care, make-up and make-up removal products for the body, face, hair, nails, lashes and/or lips.

#### Technology Focus

POLYMERS - Preferred Materials: The polymer comprises hydrophobic sequences with 6-30C fatty chains or divalent (cyclo)aliphatic or aromatic groups, preferably alkyl, aralkyl alkylaryl or alkenyl chains, and the hydrophilic sequences are polyoxyethylene, polysaccharide, polyacrylamide and/or polyester.

The bonds between them are from ester, ether, urea, amide and/or urethane bonds, and the weight ratio of hydrophilic to hydrophobic sequences is 10:1 - 1:10. the polymers are especially from quat. cellulose derivatives and polyamines with lateral amine groups.

The lipid comprises nonionic lipids, preferably polyethylene glycol isostearate, diglycerol isostearate, polyglycerol monolaurate or monostearate with 10 glycerol units, sorbitan oleate and sorbitan isostearate, and anionic lipids, preferably alkyl ether citrates, alkoxylated alkenyl succinates and (methyl)glucose alkoxylated alkenyl succinates.

Preferred Composition: The weight ratio of oil to lipid is 1.2-6 and the oil globules are of size 30-100 nm.

The composition contains 0.2-15 (1-8) wt.% lipid and 2-40 (4-30) wt.% oil.

Preferred Process: The treatment of skin, hair, nails and/or lashes comprises applying the cosmetic compositions.

### I. Original Publication Data by Authority

#### Original Abstracts:

La presente demande concerne une nanoemulsion huile-dans-eau comportant une phase huileuse dispersee dans une phase aqueuse dont les globules d'huile ont une taille moyenne inferieure a

150 nm, caracterisee par le fait qu'elle comprend au moins un lipidique amphiphile de preference non ionique et au moins un polymere amphiphile cationique comportant au moins une chaine hydrophobe et au moins un motif hydrophile ainsi qu'a ses utilisations en cosmetique ou en dermopharmacie.

Oil-in-water nanoemulsions comprising oil globules with an average size of less than 150 nm and comprising at least one oil, at least one amphiphilic lipid, and at least one cationic polymer comprising at least one hydrophobic block and at least one hydrophilic block. Processes comprising such oil-in-water nanoemulsions.

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